USER GUIDE

H.264 Digital Video Recorder

V1.0

This document contains preliminary information and subject to change without notice

SAFETY PRECAUTIONS

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of unprotected “Dangerous voltage" within the product's enclosure that may be strong enough to cause a risk of electric shock.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

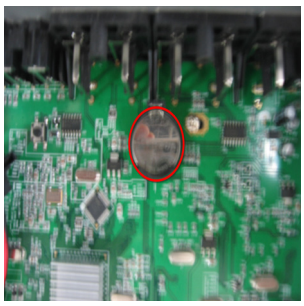
SAFETY WARNING AND CAUTION

The following are the statements of warning and caution.

Please read completely for safe usage of the Device

☞ If you don't read these warning and Caution carefully, You may be injured or cause property loss.

Warning	
Turn off the system before installing the system. Do not plug in several electric devices to the same outlet. This may cause heating, fire, or electric shock.	Do not place any liquid container on the system, such as water, coffee, or beverage. If liquid is poured onto the system, it can cause a system breakdown or cause fire.
Prevent power cable from being severely bent or pressed by a heavy object. This may cause fire.	Clean the dust around the system on regular basis. When cleaning the system, always use dry cloth. Do not use wet cloth or other organic solvents. This may damage the surface of the system and can cause system breakdown or electric shock.
Avoid any place with moisture, dust, or soot. This can cause fire or electric shock.	When pulling the power cable from the plug, do so gently. Do not touch the plug with wet hands and avoid using the plug if the holes on the outlet are too loose. This may cause fire or electric shock.
Don't attempt to disassemble, repair, or modify the system on your own. It is extremely dangerous due to high voltage running through the system. This may cause fire, electric shock, or serious injuries.	Install the system in a cool place without direct sunlight and always maintain room temperature. Avoid candle light and heat-generating devices such as heater. Keep the system away from places where many people pass. This many cause fire.

Check for any danger signs such as moist floor, loosened or damaged power cable, or unstable surface. If you encounter any problems, ask for assistance from your dealer. This may cause fire or electric shock.	Install the system on a plain surface with sufficient air ventilation. Do you place the system on elevated surface. This may cause system breakdown or serious injuries.
Keep at least 15cm between the back of the system and a wall for the cables connected into the system. Otherwise, cables may be bent, damaged, or cut. This may cause fire, electric shock, or injuries.	The power outlet must be placed on a ground, and the voltage range must be within 10% of the voltage rate. Do not use the same outlet with a hair dryer, iron, refrigerator, or any heating appliances. This may cause fire, heating, an electric shock.
When the system's battery is deplete, you must change it with the same or equivalent type of battery specified by the manufacturer. Depleted batteries should be discarded according to manufacturer's instructions. This may cause an explosion. <Location of Battery>  Please separate a battery as above image	The manufacturer is not responsible for deleted data caused by user's mishandling.

Caution

Do not install the system in a place with high magnetic, electric wave, or wireless devices such as radio or TV. Install the system in a place without magnetic objects, electric frequencies, or vibration.	Install the system in a place with appropriate moisture and temperature level. Avoid installing the system with high (over 40°C) or low (under -5°C) temperature.
Prevent any substances from being inserted into the system. This may cause system breakdown.	Do not place any heavy object on the system. This may cause system breakdown.
Install the system in a place with sufficient air ventilation. Keep at least 15cm distance between the back of the system and a wall and at least 5cm distance between the side of the system and a wall.	Install the system on a stable and leveled surface. The system may not operate properly.
The system can be damaged from a strong impact or vibration. Avoid throwing objects within the vicinity of the system.	The outlet must be placed on the ground.
Avoid direct sunlight or any heating appliances.	If there is strange sound or smell, unplug the power cable immediately and contact the service center. This may cause fire or electric shock.
Ventilate the air inside the system operation room and tighten the system cover firmly. System breakdown may be cause by inappropriate environment. It is recommended to use AVR (Automatic Voltage Regulator) for stable power supply. It is recommended to coil the core-ferrite around the connector of the system to avoid electromagnetic interference.	In order to maintain stable system performance, have your system checked regularly by the service center. The manufacturer is not held responsible for system breakdown caused by user's mishandling.

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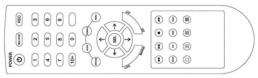
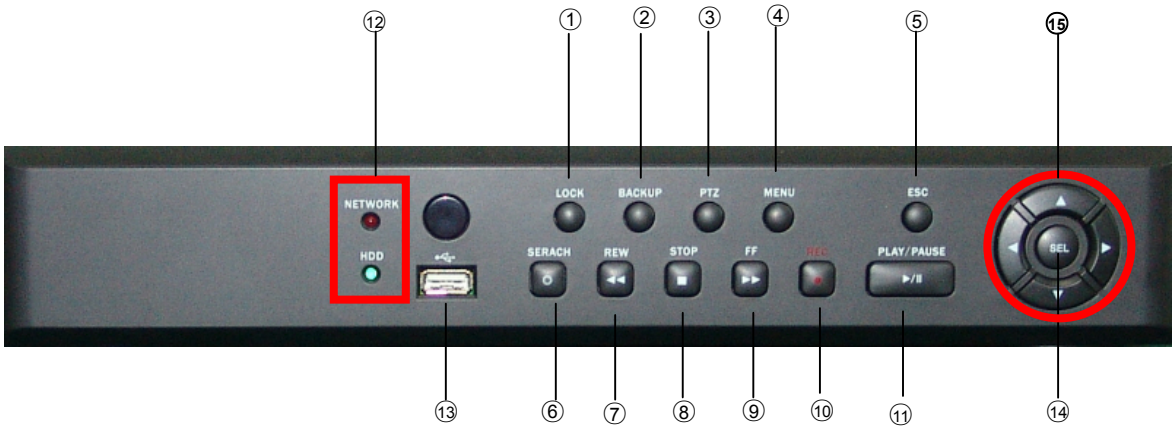
1. PACKING LIST

DVR SET	
SOFTWARE CD	
REMOTE CONTROLLER	
BATTERY	
MANUAL	
SCREWS	
SATA HDD CABLE	
HDD Bracket (For 16CH DVR)	
Sponge Ring & Screws (For 4CH & 8CH DVR)	
POWER CABLE & Adaptor	
SATA Power Cable	

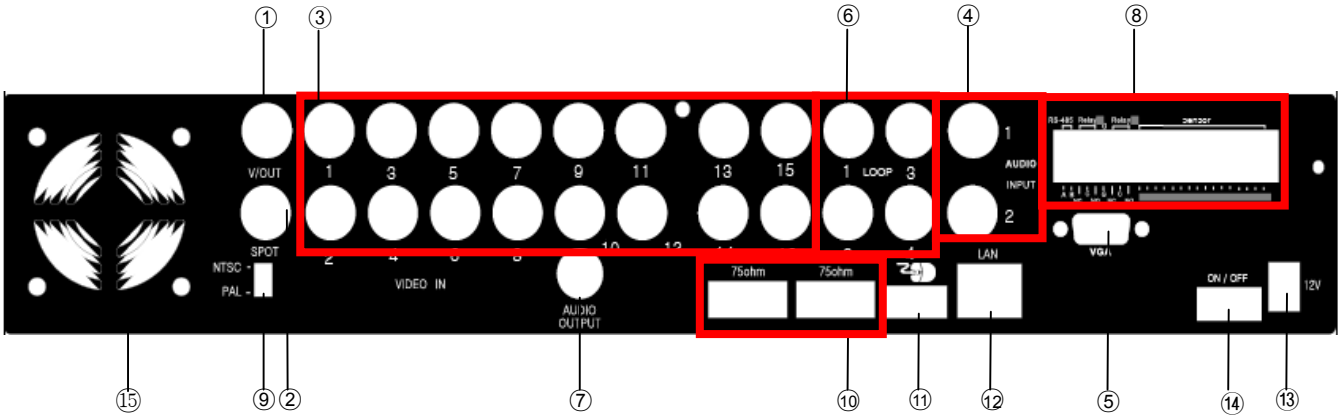
2. PANEL LOCATION

2-1 FRONT PANEL CONTROLS

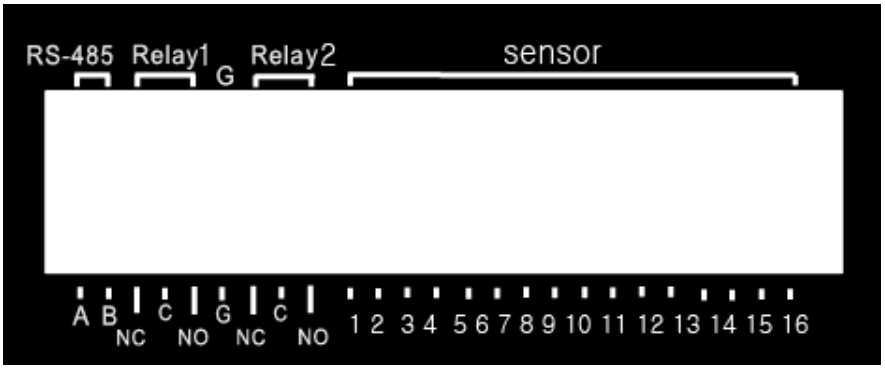


Control Keys	Description
①LOCK	In LIVE mode, It locked all accounts.
②BACKUP	In LIVE mode, press to display the BACKUP menu.
③PTZ	In LIVE mode, press to display the PTZ menu.
④MENU	In LIVE mode, press to display menu.
⑤ESC	In SETUP mode, press to return to previous page..
⑥SEARCH	In LIVE mode, press to Display the search menu.
⑦ ◀◀ REW	In PLAYBACK mode, press to play rewind.
⑧ ■ STOP	In PLAYBACK mode, press to stop playing back.
⑨ ▶▶ FF	In PLAYBACK mode press to play forwards.
⑩REC	Start or stop recording..
⑪PLAY / PAUSE	In SEARCH mode, press to play or pause playback.
⑫LED DISPLAY	**NETWORK**: the status of Network connection **HDD**: Hard disk is in use.
⑬USB PORT	USB Port (For Backup Device)
⑭SEL MODE	In SETUP mode, press to enter values. In PLAYBACK mode, switch between full, quad, 9-channel, 16-channel display in order.
⑮ ▲ / ▼ / ◄ / ►	Press to move cursor up, down, right, left.

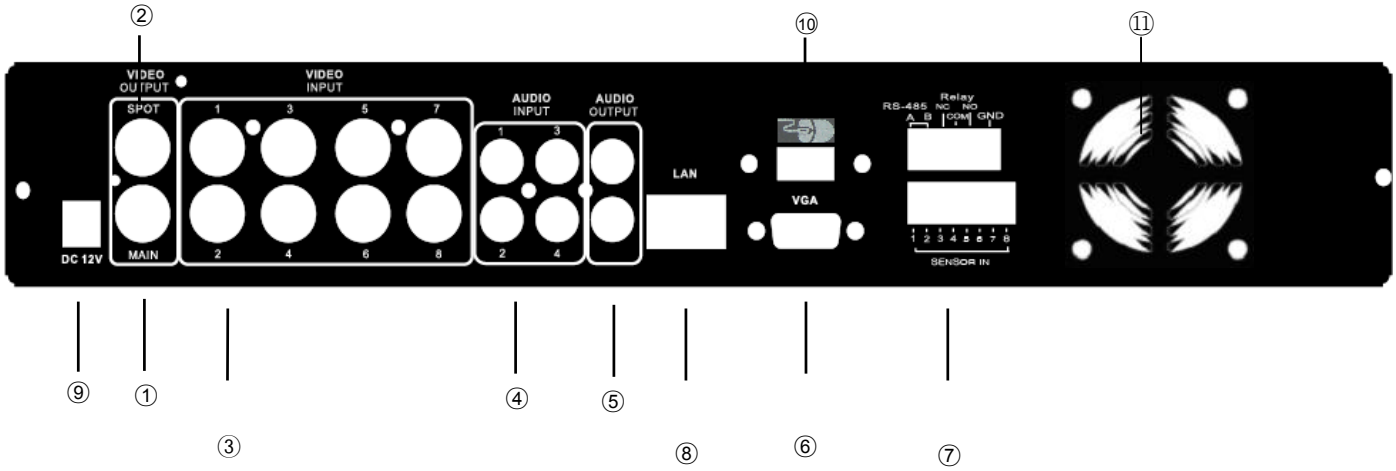
2-2 16CH REAR PANEL CONNECTORS



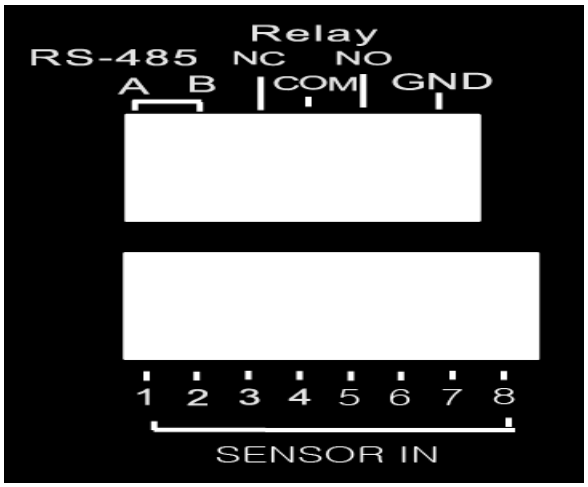
① MAIN monitor	BNC port for the main monitor.
② SPOT monitor	BNC port to display full screen image of all installed cameras in sequence.
③ VIDEO IN	BNC input ports for cameras, 16 in total.
④ AUDIO IN	RCA input port for audio signal. There are 4 ports available. (corresponding to channel 1 to 4)
⑤ VGA	VGA port.
⑥ LOOF OUT	LOOF OUT
⑦ AUDIO OUT	RCA output for audio signal.
⑧ EXTERNAL I/O	EXTERNAL I/O port (see below for pin definition)
⑨ NTSC／PAL Switch	Switch between NTSC and PAL format.
⑩ 75Ω Switch (1~16CH)	If you use Loof Out function, Set Switches of each channel,
⑪ USB Port	USB Port (For Mouse)
⑫ LAN	Network port.
⑬ DC 12V	Socket for a DC 12V input
⑭ Power Switch	Switch Power ON or OFF
⑮ FAN	



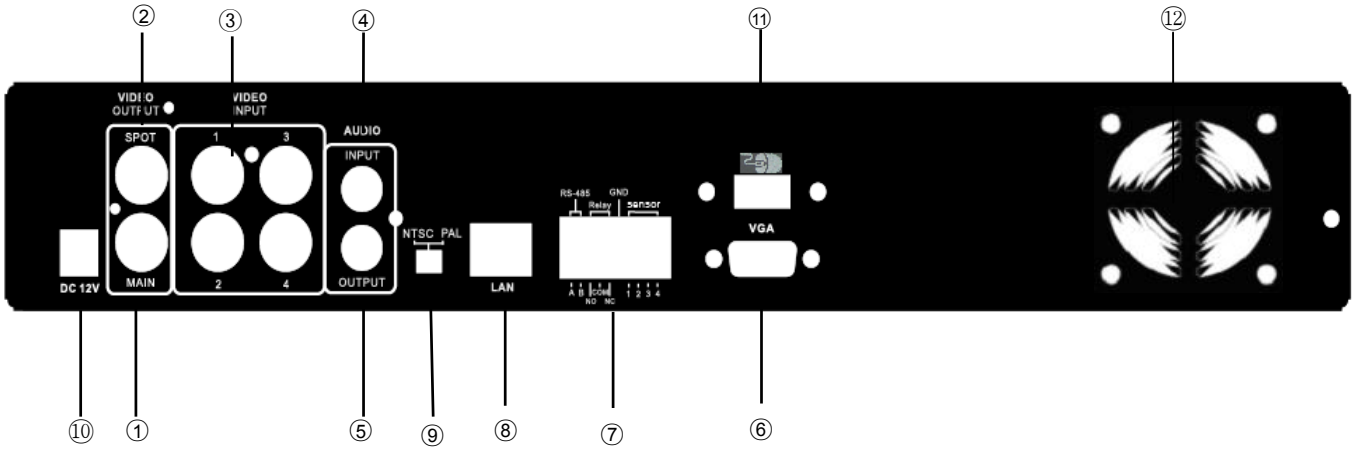
2-3 8CH REAR PANEL CONNECTORS



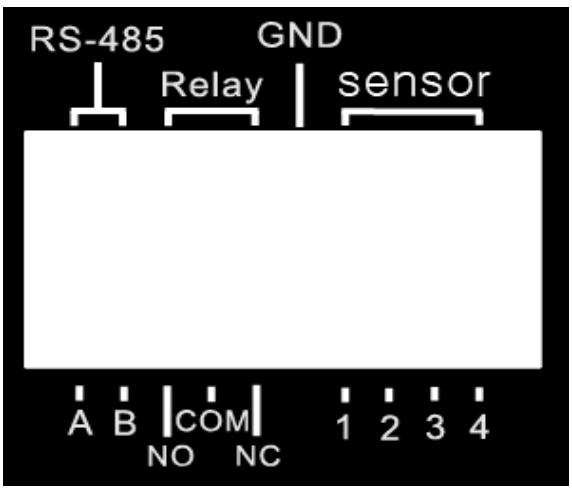
① MAIN monitor	BNC port for the main monitor.
② SPOT monitor	BNC port to display full screen image of all installed cameras in sequence.
③ VIDEO IN	BNC input ports for cameras, 8 in total.
④ AUDIO IN	RCA input port for audio signal. There are 4 ports available. (corresponding to channel 1 to 4)
⑤ AUDIO OUT	RCA output port for audio signal.
⑥ VGA	VGA port
⑦ EXTERNAL I/O	EXTERNAL I/O port (see below for pin definition)
⑧ LAN	Network port
⑨ DC 12V	Socket for a DC 12V input.
⑩ USB Port	USB Port (For Mouse)
⑪ FAN	



2-4 4CH REAR PANEL CONNECTORS



① MAIN monitor	BNC port for the main monitor.
② SPOT monitor	BNC port to display full screen image of all installed cameras in sequence.
③ VIDEO IN	BNC input ports for cameras, 4 in total.
④ AUDIO IN	RCA input port for audio signal. There is only a port of Channel 1 available.
⑤ AUDIO OUT	RCA output port for audio signal.
⑥ VGA	VGA port
⑦ EXTERNAL I/O	EXTERNAL I/O port (see below for pin definition)
⑧ LAN	Network port
⑨ NTSC／PAL Switch	Switch between NTSC and PAL format.
⑩ DC 12V	Socket for a DC 12V input.
⑪ USB Port	USB Port (For Mouse)
⑫ FAN	



3. Product Specification

Product (120 Frame)			Stand-Alone(4CH)	Stand-Alone(8CH)	Stand-Alone(16CH)
OPERATION SYSTEM			LINUX		
VIDEO	VIDEO SYSYEM		NTSC/PAL Switch Selectable	AUTO Detect	NTSC/PAL Switch Selectable
	INPUT		BNC*4,1.0Vp-p,75ohm	BNC*8,1.0Vp-p,75ohm	BNC*16,1.0Vp-p,75ohm
	CVBS		1CH, BNC		
	SPOT		1CH, BNC		
	LOOP OUT		without loop		BNC*4 with termination s/w
	VGA OUTPUT		D-sub STANDARD		
AUDIO	INPUT		1CH,RCA	4CH,RCA	2CH,RCA
	OUTPUT		1CH,RCA	2CH,RCA	1CH,RCA
CONTROL	MOUSE		USB Mouse 1*USB1.1(back)		
	IR CONTROLLER		YES		
STORAGE	BUILD IN INTERFACE		SATA*1(1*HDD)		
DISPLAY	DIVISION		1,4	1,4,8	1,4,9,16
	ZOOM		2*~8*(Playback Zoom Support)		
RECORDING	COMPRESSION		H.264 Main Profile H.264		
	RECORDING MODE		Manual,Schedule,Alarm,Holiday		
	RESOLUTION	NTSC	720*480,720*240,360*240		
		PAL	720*576,720*288,360*288		
	FRAME RATE	NTSC	120FPS	120FPS	240FPS
		PAL	100FPS	100FPS	200FPS
	QUALITY		Highest,High,Normal,Basic,Below Basic		
	MOTION DETECTION		Sensitivity:10Level,22*15Grid		
	WATER MARK		YES		
PLAYBACK	FRAME RATE		120FPS(NTSC) / 100FPS(PAL)		
	SPEED		Normal,REW&FF(1/4,1/2,2*,4*,8*,16*,32*,64*)		
	SEARCH METHOD		Event,Time(Calendar)		
COMMUNICATION	REMOTE SOFTWARE		Remote Client, IE Brower, Mobile, CMS		
	REMOTE OPERATION		Virtual DVR-Same As Local OSD		
	NETWORK SERVICE		TCP/IP,HTTP,DDNS,SMTP(SSL)		
			ADSL,LAN,DHCP		
	3G DEVICE		Win Mobile5.0,6.0, Symbian, PDA, Blackberry, Iphone(recommended)		
	GUI INTERFACE		Supported GUI 32 Bit True Color		
	PTZ PROTOCOL		Pelco P/PelcoD/KND/LiLin/LG/Samsung/AVTECH		
BACKUP	INTERNAL		not support		
	EXTERNAL		1*USB2.0(front)		
	NETWORK		YES		
	FILE		H.264 Compression		
GENERAL	ALARM IN/OUT		4 / 1	8 / 1	16 / 2
	RS-485		1	1	1
	UNIT DIMENSION(mm)		340(W) * 250(D) * 60(H)		
	RECOVERY		Watchdog		
	OPERATION TEMPTERATURE		-5℃~40℃		
	POWER CONSUMPTION		DC 12V,4A,48W		DC 12V,5A,60W

4. LIVE, PLAYBACK AND PTZ OPERATIONS

The IR remote controller and USB mouse operate differently under each mode; this chapter describes the functions of them under three different modes: LIVE, PLAYBACK and PTZ.

4-1 LIVE Mode

You can monitor all channels, listen to audio signal and have some related operations under LIVE mode. This paragraph describes the IR remote controller, USB mouse operation and on screen graphical icons under LIVE mode.

Table 4-1.1 Functions of remote control under LIVE mode

Button	Description
REC	Start/Stop recording.
PLAY	Start playing back the most recently recorded segment.
LOCK	Enable/Disable the Keypad function
1,2,3,4	Select the channel to monitor in full screen
FREEZE	Turn on/off screen freeze function. (=Pause Function)
	Switch to 1-channel display.
	Switch to quad display.
	Switch to 9-channel display. 4ch DVR doesn’t feature this function.
	Switch to 16-channel display. 4ch & 8ch DVR doesn’t feature this function.
ENTER/MODE	Switch to full screen, quad display Sequentially.
MENU/ ▮▮	Enable/ Disable setup Menu.
BK-UP/ESC	Enable/ Disable backup menu.
SRH	Enable/ Disable search menu.
MUTE	Switch channel 1 output audio / turn off LIVE audio
STATUS	Enable/ Disable Status.
OSD	Turn on/off the screen display

Button	Description
Zoom/Zoom -	Enable/ Disable double screen size display. You can click on the channel name for choosing a specific channel.
PIP/Zoom +	Turn on picture-in-picture format. Click on the channel name can switch to other channels.
PTZ	Enable PTZ control.
AUTO	In AUTO mode, all available channels will be cycled through in full screen as Auto Sequence.
ID 1~4	Switch DVR ID from 1 to 4

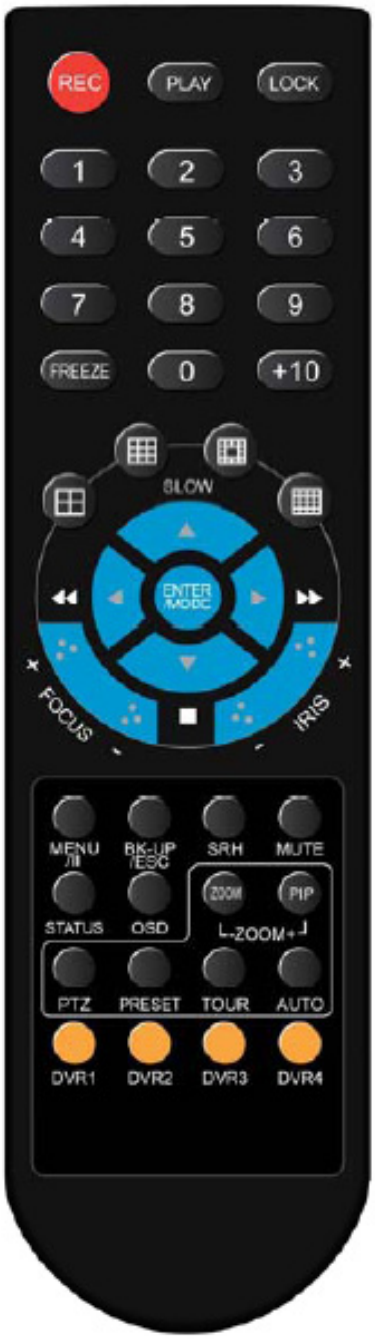
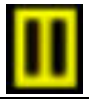


Table 4-1.2 Graphical icons that will display after right-clicking your mouse under LIVE mode.

Icon	Description
	Resting the cursor on this icon will bring up the following four menu icons.
	Main menu.
	Search menu.
	Backup menu.
	PTZ mode.
	Turn on/off recording.
	Playback.
	Resting the cursor on this icon will bring up the following five display icons.
	FREEZE.
	PIP, picture in picture
	ZOOM, double the screen size
	AUTO-sequence
	LOCK, activate the key lock.
	Full screen display.
	Quad display.
	9-channel display.
	16-channel display.

Table 4-1.3 Description of on screen graphical icons in LIVE mode

Icon	Description
	Recording is on
	Live Audio is on (1~4)
	Live Audio is off
	Motion detected on the channel
	Sensor triggered on the channel
	Video loss detected on the channel
	USB device detected
	DVD burner is detected
	Connected to the LAN cable.
	AUTO-SEQ is on
2X	2X zoom in is on
	Freeze is on, screen is frozen (= Pause)
	LOCK is on
	PTZ control is on
	IR remote signal has been set to 1-4 to correspond to your 1-to-4 remote control. Meanwhile, the standard remote control can't control DVR under this situation. It can only be controlled by 1-to-4 remote controls.

Icon	Description
HQ / LQ	Image quality (High/Low)
/	Full screen
	Record
	Snap shot
	Record and snap shot file saving path setup

4-2 PLAYBACK Mode

Switch to PLAYBACK mode by pressing “PLAY” under the LIVE mode, the graphical icon will show up on the upper center of the screen and the operation panel (look at the below picture) will show up at right lower corner of the screen. You can drag the panel by mouse to place it on any location of your screen.

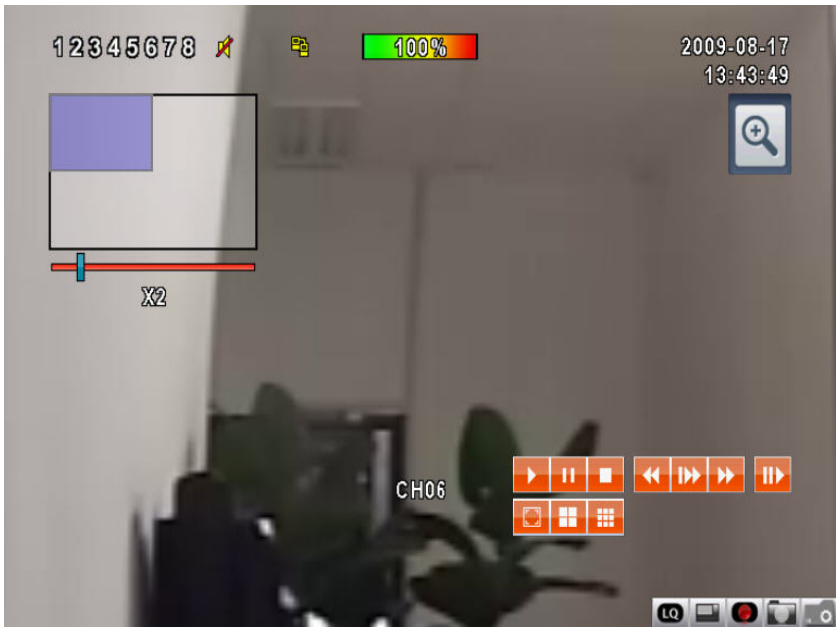


Table 4-2.1 Remote control functions under the PLAYBACK mode

Button	Description
ENTER / MODE	Switch to full screen, quad, 9-channel or 16-channel display.
MENU / ▮▮	Turn on/off PAUSE.
PLAY	Play back at normal speed.
▲ / SLOW	Play back at slower speed. The speed will be slowed to 1/2, 1/4, 1/8, 1/16 by each pressing of the button till the slowest limitation of 1/16 of the normal speed. Current

	playback speed is shown in the upper center of the screen.
◀◀ / ◀	Fast rewind. Each press increases the speed to the next level. There are six speeds: 2X, 4X, 8X, 16X, 32X and 64X.
▶▶ / ▶	Fast forward. Each press increases the speed to the next level. There are six speeds: 2X, 4X, 8X, 16X, 32X and 64X.
▼ / ■	Stop playback.

Table 4-2.2 The mouse operation under the PLAYBACK mode.

Icon	Description
	「◀◀ / ◀」 Fast rewind
	「▶▶ / ▶」 Fast forward
	Play/pause
	「▲ **/ SLOW**」，slow playback
	「▼ / ■」stop playback
	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	9-channel display
	Zoom-in display

4-3 PTZ Mode

Switch to the PTZ mode by pressing “PTZ” button under the LIVE mode. The PTZ icon will appear on upper center side of screen and the control panel will appear on the down right side of screen.

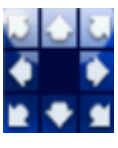
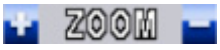
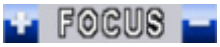
Table 4-3.1 Remote Control functions under the PTZ mode

Button	Description
▲ / **SLOW**	Move PTZ up.
▼ / ■	Move PTZ down.
◀◀ / ◀	Move PTZ to the left.
▶▶ / ▶	Move PTZ to the right.
ZOOM +	PTZ zoom-in.
ZOOM -	PTZ zoom-out.
FOCUS +	PTZ focus-in.
FOCUS -	PTZ focus-out.
IRIS +	PTZ iris-open.
IRIS -	PTZ iris-close.
TOUR	Activate PTZ pre-set tour. ＊
PRESET+ Number	Setup the Preset location Press “**PRESET**” key first then two-digit number; DVR will set the current PTZ location at entered preset number.
PLAY+ Number	Go to Preset location Press “**PLAY**” key first then two-digit number, PTZ will go to the correspondent preset number location.

PIP	Set current PTZ location as the start of line-scan. ＊
FREEZE	Activate auto line-scan. ＊
ZOOM	Set current PTZ location as the end of line-scan.＊

＊PTZ communication protocols from different brands aren't compatible 100% sometimes. Therefore, some of these functions may be unavailable.

Table 4-3.2 Mouse operation under the PTZ mode

Icon	Description
	Leave PTZ Mode，back to the LIVE mode
	Pre-set number N. (1~64)
	Go to pre-set number N.
	Set current PTZ location at pre-set number N.
	「TOUR」，press to activate pre-set tour＊
	「PIP」，Set current PTZ location as the start of line-scan. ＊
	「FREEZE」， Activate line-scan. ＊
	「ZOOM」，Set current PTZ location as the end of line-scan. ＊
	To move PTZ in 360°
	PTZ zoom in; PTZ zoom out
	PTZ focus in; PTZ focus out.

	PTZ IRIS open, PTZ IRIS close.
Below functions need support from specific PTZ manufacturer. Please check user manual of your PTZ for more detail.	
	AUX 1,「AUTO」Key ＋ Number key「1」
	AUX 2,「AUTO」Key ＋ Number key「2」
	AUX 3,「AUTO」Key ＋ Number key「3」
	AUX 4,「AUTO」Key ＋ Number key「4」
	AUX 5,「AUTO」Key ＋ Number key「5」
	AUX 6,「AUTO」Key ＋ Number key「6」
	AUX 7,「AUTO」Key ＋ Number key「7」
	AUX 8,「AUTO」Key ＋ Number key「8」
	「Backup」, Customized function。

＊PTZ communication protocols from different brands aren't compatible 100% sometimes. Therefore, some of these functions may be unavailable.

5. MAIN MENU SETUP

To enter the main menu and set up DVR, log-in account and user password are required.

The default password of the administrator is "**123456**". Please check the "Account Setup" for related setup of other log-in users.

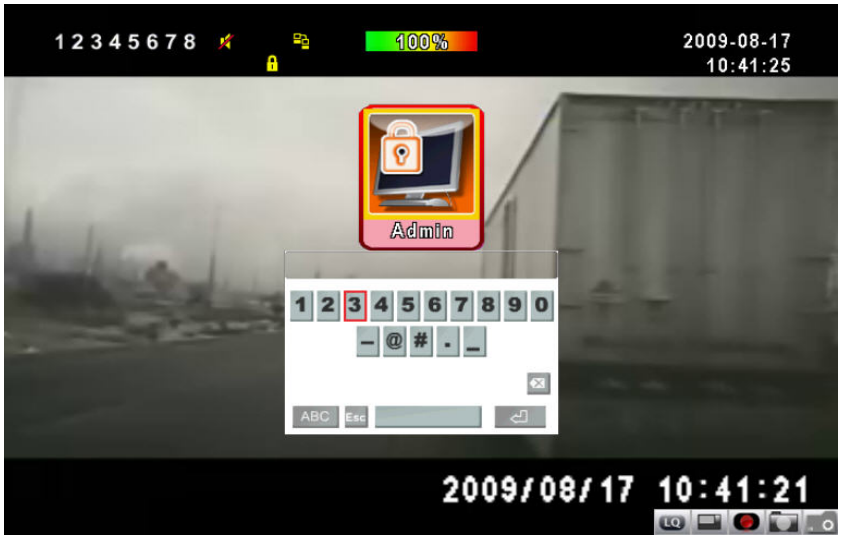


Table 5-0.1 Some definition of virtual keyboard.

Item	Description
⇧	Switch between capital and small letters.
.?123 / ABC	Switch between numbers and letters.
Esc	Press to cancel the setup, and re-choose the login account.
⌫	Delete the last character.
↵	Enter to identify the password. It will enter the setup menu, If the pas sword is verified.
	Space key

Table 5-0.2 The operation of remote control under the setting menu

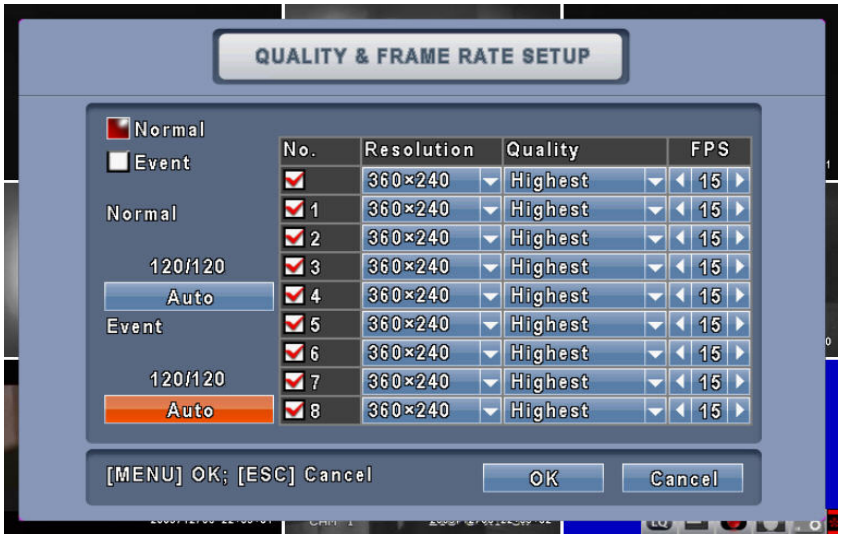
Item	Description
◄ ►	Switch to different options under one item
▲ ▼	Switch to different items
MENU	Save setup and back to LIVE mode
ESC	Back to Upper level of menu without saving
ENTER	Enter the menu, or display virtual keyboard

PS. The initialization of new-installed HDD is required to format before recording, please refer to "5-9 UTILIT Y SETUP" for detail.

5-1 RECORD SETUP

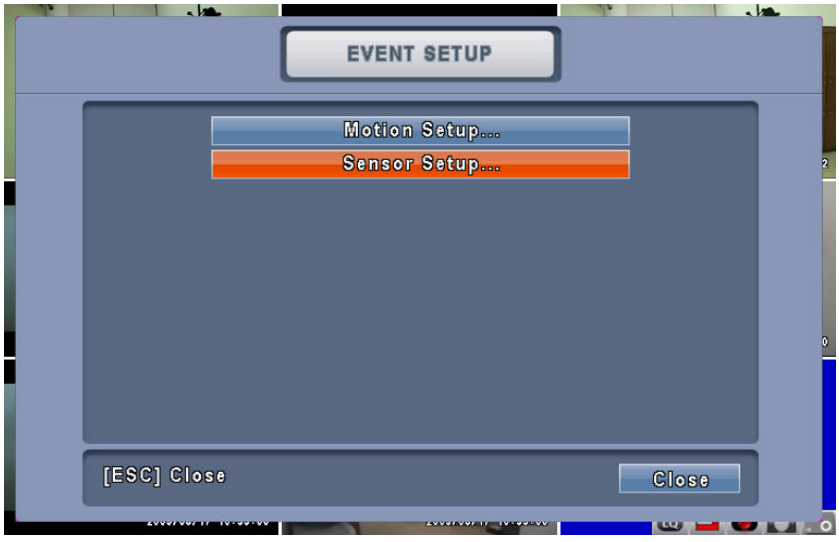
Item	Description
HDD FULL	Select STOP to stop recording or OVERWRITE to reuse the HDD when HDD is full 「**Stop**」：Stop Recording 「**Overwrite**」：Start to overwrite that begin from the oldest data of HDD, and continue to record.
Quality & Frame Rate Setup	Setup the quality and frame rate for each channel under normal recording and event recording type.
OSD position X	Setup OSD X axis
OSD position Y	Set up OSD y axis
Recording OSD position setup	Set up OSD axis

5-1.1 Quality & Frame Rate Setup



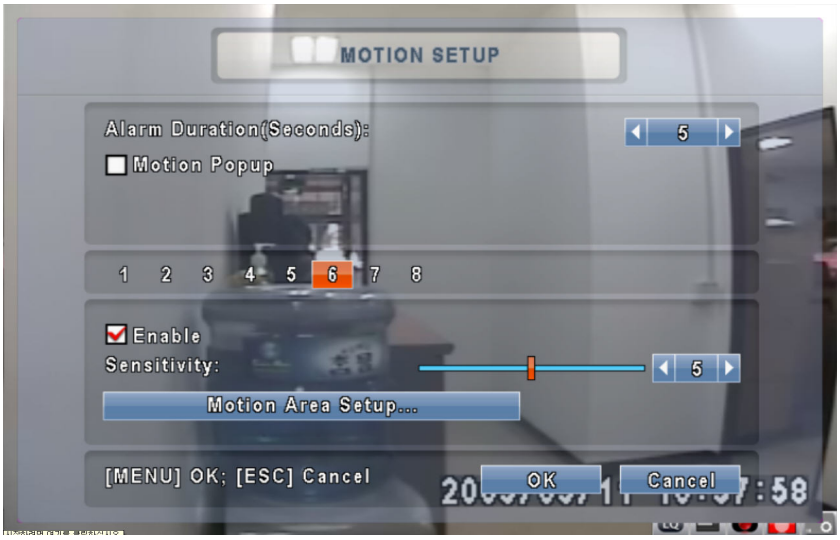
Item	Description
Normal / Event setup	Select recording mode
Resolution	Select recording resolution: NTSC 320x240, 720x240, 720x480 PAL 320x288, 720x288, 720x576
Record Type	Setup quality and FPS separately for record type.
No.	Check/uncheck the box enable/disable selected channel recording
Quality	Select quality: Below Basic/ Basic/ Normal/ High/ Highest
FPS	Select recording frame rate.
Auto	Assign each channel with its maxima accessible fps

5-2 EVENT SETUP



Item	Description
Motion Setup	Enter to set up motion detection
Sensor Setup	Enter to set up sensor detection

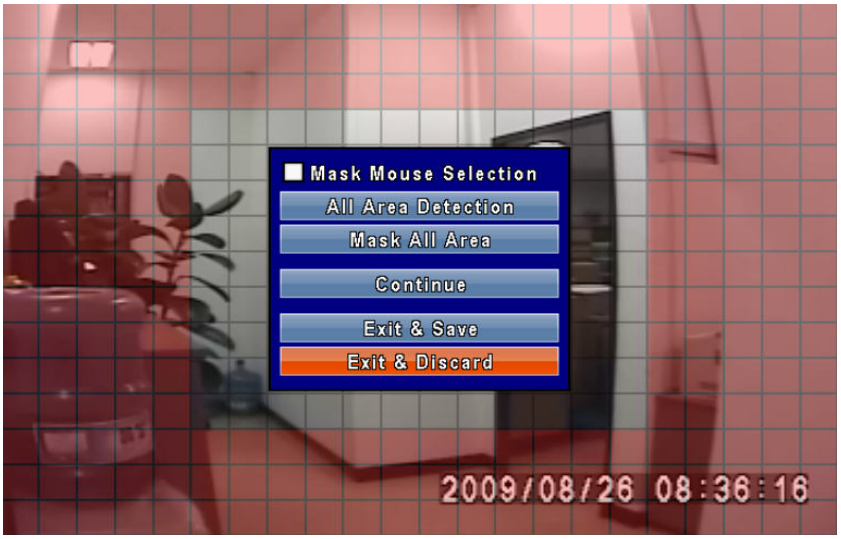
5-2.1 MOTION SETUP



Item	Description
Alarm Duration	Set the alarm time about motion detection
Motion Popup	Check the box to Enable/Disable popup screen function for all channels. When motion is detected in LIVE mode, the detected channel image will pop up in full screen display.
1 ~ 4/8/16ch	You can setup independently for each channel.
Selected Channel Turn	Check the box to Enable/Disable Motion Detection for each channel.
Sensitivity	Drag the white bar or press ◄ ► to set up Sensitivity from value 1 to 10 for each channel. The lower value you set the higher sensitivity it will be
Motion Area Setup	Enter to setup motion detection area

5-2.1.1 MOTION AREA SETUP

The motion detection has been divided into 22x15 grids. The default detection area is full screen as it marked in red for local DVR and purple for remote access. Areas selected for motion detection are marked in red for both local and remote site.



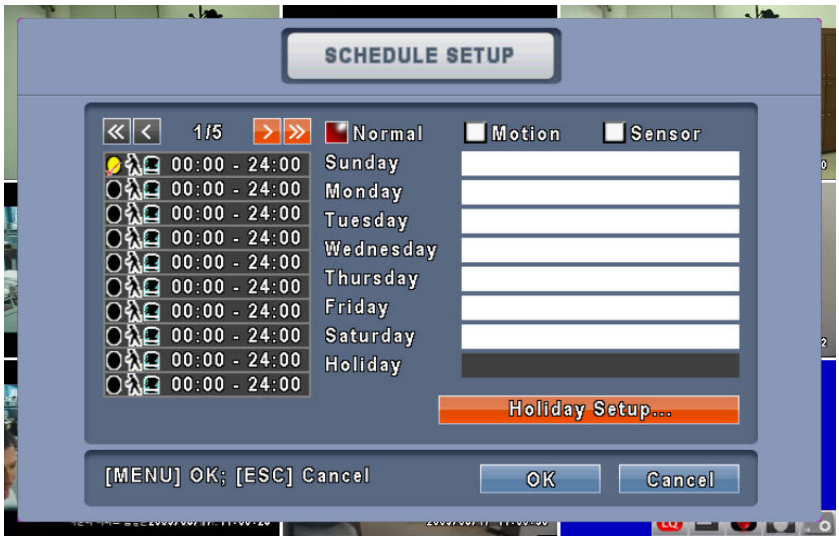
Item	Description
Mask Mouse Selection	Switch between “select” and “deselect” for cursor-dragging function
All Area Detection	Select entire screen as detection area.
Mask All Area	Deselect entire detection area.
Continue	Continue setup
Exit & Save	Save setup and leave
Exit & Discard	Leave without Saving setup

5-2.2 SENSOR SETUP

Item	Description
Sensor Popup	Check the box to Enable/Disable popup screen function for all channels. When Sensor is detected in LIVE mode, the detected channel image will pop up in full screen display.
All Off	Set all sensor off
All N.O.	Set all sensor with Normal Open
All N.C.	Set all sensor with Normal Close
Sensor Setup	Click or press ▼ to select between Normal Open, Normal Close, OFF for each channel **N.O** ：Sensor has not been triggered. When connected, sensor will be turned on.. **N.C** ：Sensor has been triggered. When connected, sensor status will be turned off.. **Off** ：Sensor is deactivated, and will not be turned on/off.

5-3 SCHEDULE SETUP

Except from starting recording manually, you can also setup the recording time by weeks and schedule including normal, motion detect, and sensor detect recording type.



Item	Description
Page	Each page provides 10 schedules for setup. 5 pages in total.
Holiday Setup	Enter to setup holiday, up to 50 days, other than weekends,.
View Event/ Motion/ Sensor Setup	View Normal/ Motion / Sensor Setup

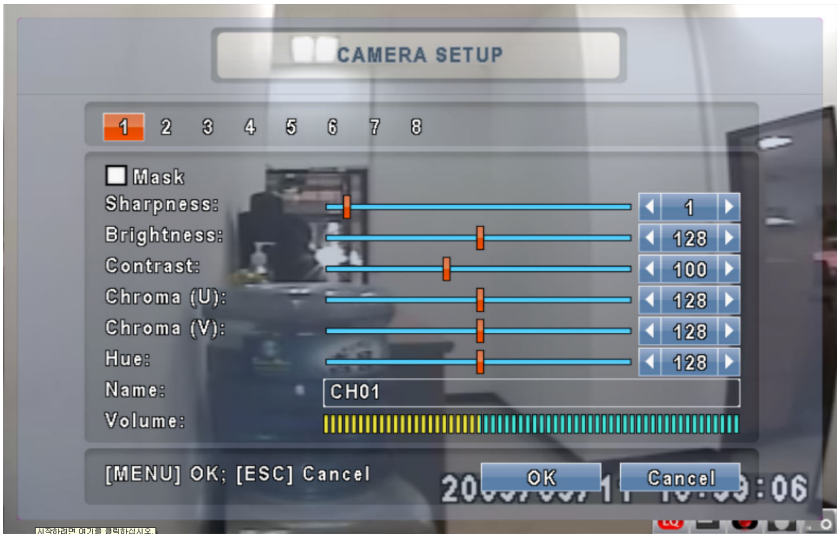
5-3.1 Schedule Record Setup

Click on the time on the left side. The setup menu will be displayed. You can have detail setup by dates, Time and event.

5-3.2 Holiday Setup

Since holidays are different by different country and region, you can setup the holiday of your location accordingly.

5-4 CAMERA SETUP



Item	Description
1 ~ 4/816ch	You can setup independently for each channel.
Mask	Check the box to Enable/Disable mask function for LIVE mode
Sharpness	Drag the bar or press ◄ ► to adjust Sharpness of your camera from value 1 to 255. The default value is 128.
Brightness	Drag the bar or press ◄ ► to adjust Brightness of your camera from value 1 to 255. The default value is 128.
Contrast	Drag the bar or press ◄ ► to adjust Contrast of your camera from value 1 to 255. The default value is 128.
Saturation	Drag the bar or press ◄ ► to adjust Saturation of your camera from value 1 to 255. The default value is 128.
Hue	Drag the bar or press ◄ ► to adjust Hue of your camera from value 1 to 255. The default value is 128. (**This function doesn't support at PAL system**)
Name	Set up name of each channel
Volume	Audio volume for CH1 to CH 4 under LIVE mode and recording mode can be adjusted.

5-5 ACCOUNT SETUP

The Account Setup menu is used to provide role-based permission independently setting for each user (maximum of 4 users) to access DVR over network. The default admin account and password is **"admin"** and "**123456**" The default password remains the same after firmware upgrade, however, it requires 8-digits for password length when you setup a new one

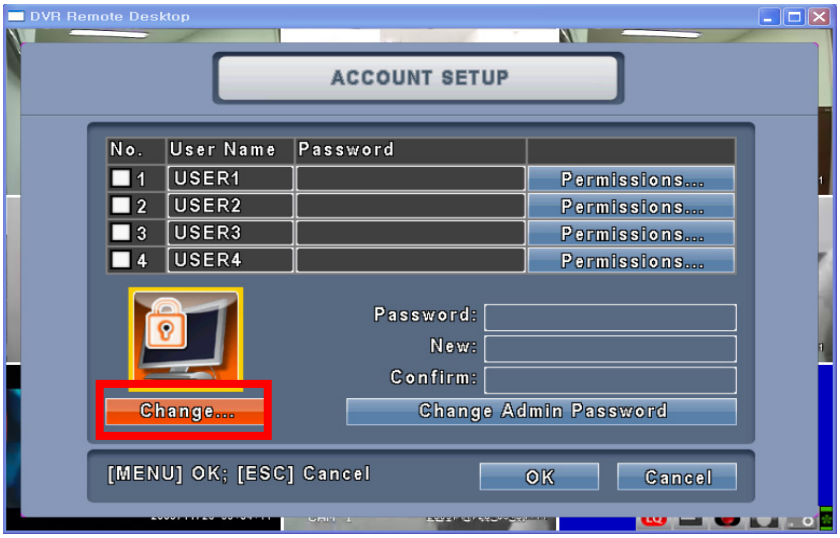
Item	Description
No.	Check to activate the user's account.
Username	Set up username
Password	Set up password for each user. Password is 8-digits required and can be mixed by letters and numbers with case-sensitive. Letters can be mixed with capitals or lowercases.
Permissions	Set up Permissions for each user
Change Admin Password	Change administrator's password
Picture	Change user's picture

5-5.1 Permission Setup

The Account Setup is set to provide individual user (maximum of 4 users) role-based permissions, including access to Setup menu, Network operation, PTZ function, Playback, Utility, Backup, Password expiry date and Mask on specific channels while playing back.

5-5.2 User Picture Setup

User can select picture wish to be changed to from hard drive.



5-6 NETWORKING SETUP

Item	Description
Connect type	Setup mode for network connection: (**DHCP / LAN / ADSL**).
HTTP Setup	Enter to set up HTTP
DDNS Setup	Enter to set up DDNS
Mail Setup	Enter to set up mail

5-6.1 NETWORKING SETUP

There are three ways to connect to the network as followed.

5-6.1.1 DHCP

When DHCP is selected, IP address will be assigned by DHCP server automatically.

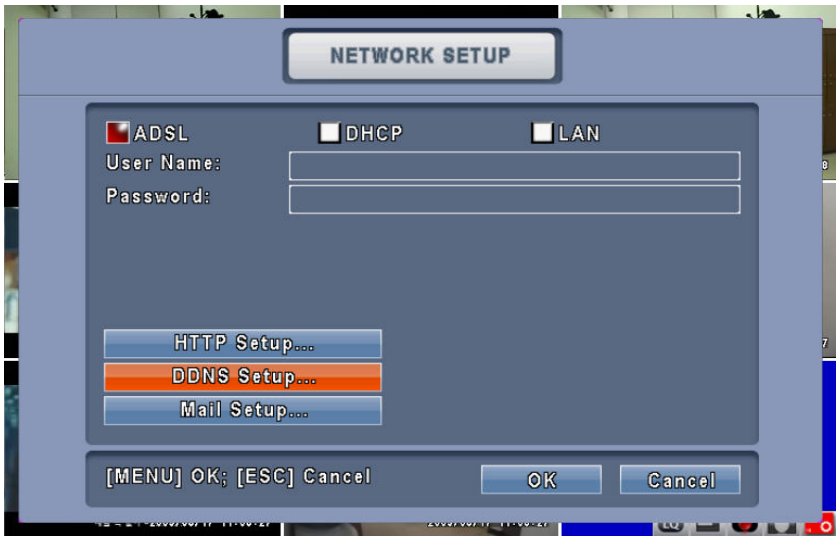
5-6.1.2 LAN

Select LAN for network connection, the following information is required.

Item	Description
IP Address	Enter IP address provided by ISP (Internet Service Provider)
Subnet Mask	Enter IP address of Subnet Mask provided by ISP
Gateway	Enter IP address of Gate way provided by ISP
DNS	Enter DNS address provided by ISP. (Note: The correct DNS address must be entered for DDNS function).

5-6.1.3 ADSL

Select ADSL for network connection, the following information is required.



Item	Description
User Name	Enter user name provided by ISP (Internet Service Provider)
Password	Enter password provided by ISP

5-6.2 HTTP Setup

Item	Description
Enable HTTP Server	Check to enable HTTP server. Users can remotely access into the DVR over the network if the HTTP function was activated.
Port	Enter a valid port value from 1 up to 65000. The default value is 80.
Auto	Assign each channel with its maximum accessible fps
No.	Channel number
Quality	Set up record quality. There are below basic, basic, normal, high, highest
FPS	Set up record FPS

5-6.3 DDNS Setup

Item	Description
Enable DDNS	Enable/disable DDNS function.
DDNS Server	Enter the registered DDNS Server: **DDNS, DYNDNS.ORG, NO-IP.ORG, 3322.ORG** (Default : ddns)
Host Name	Enter Host name.
User Name	Enter DDNS ID.
Password	Enter password.

＊ For more detailed DDNS operation instruction, please refer to appendix

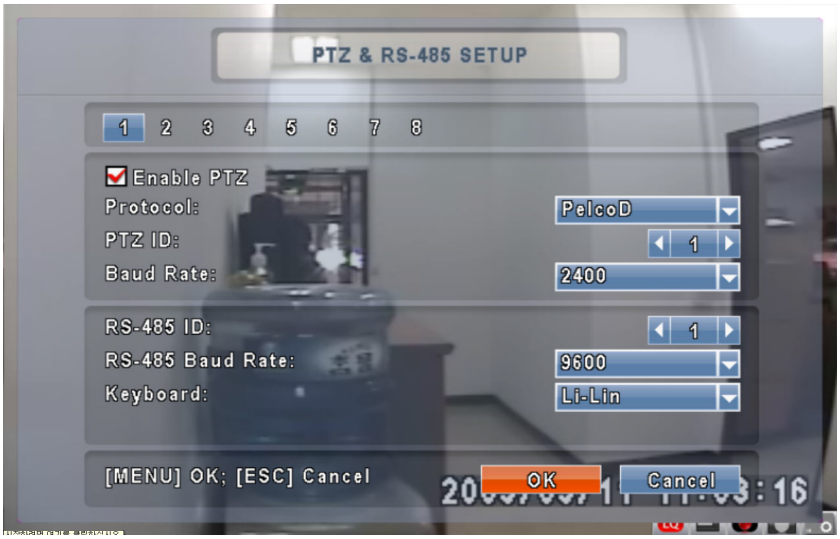
5-6.4 Mail Setup

When event occurs (VLOSS, MOTION, SENSOR), email will be sent to the receiver account automatically.

Item	Description
Enable E-mail Notification	Check the box to enable/disable E-mal Notification function.
SMTP Server	Enter to set up SMTP Serve name.
User Name	Enter to set up User Name.
Password	Enter to set up Password.
Sender's E-mail	Enter to set up e-mail address of sender.
Receiver's E-mail	Enter to set up e-mail addresses for up to 10 receivers individually.
Trigger Event	Enter to select events to send out E-mail notifications when below circumstances happen: Motion, Sensor and Vloss (Video Loss).

5-7 PTZ & RS485 SETUP

The DVR allows users to control PTZ functions of your camera. To enable PTZ function, the RS-485 cable should be connected to the RS-485 port of DVR.



Item	Description
Enable PTZ	Click the box to Enable/Disable PTZ function for each channel.
Protocol	Set up the protocol of PTZ cam. The supported protocol are **PELCO-P, PELCO-D, KND, LI-LIN, SAMSUNG, LG, AVTECH** and so on.
PTZ ID	Click or press ◄ ► to set up PTZ ID. The valid ID value is from 1 to 64.
Baud Rate	Select Baud Rate for PTZ from 2400, 4800, 9600,19200
RS-485 ID	Select RS-485 ID from 1 to 64
RS-485 Baud Rate	Select RS-485 Baud Rate from 2400. 4800, 9600, 19200
Keyboard	Select Keyboard.

5-8 SYSTEM SETUP

Item	Description
DVR Name	The name of DVR will be shown when users login from remote access.
DVR Location	The location of DVR will be shown when users login from remote access
Language	Click or press ▼ to select OSD language from English, Traditional Chinese, Simplified Chinese, Japanese, Deutsch, French, Espanol, Portuguese, Italian, Pyccknn, and so on.
Remote ID	Default ID is 1. When DVR is controlled by standard remote control, please press “DVR1 ＊” before using it. If you have over two DVR machines, the DVR’s ID could be set-up from 1 to 4. For example, standard remote control can’t operate DVR numbered 3. It only responds when “DVR3” button has been pressed beforehand.
Display Setup	Enter to set up Display
Date/Time Setup	Enter to set up Date/Time
Device Setup	Enter to set up Buzzer & Relay
Spot Setup	Enter to set up Spot

＊Default ID no. is “1”. If remote control malfunctions, please press, “DVR1” button to renew corresponding DVR ID.

5-8.1 DISPLAY SETUP

Item	Description
Auto-Seq Interval (Seconds)	Set up duration time in seconds for the interval between channels under Auto-Seq mode.
Show OSD	Turn On / Off OSD display
Show DVR Status	Turn On / Off DVR illustration and record status display
Show Date/Time	Turn On / Off date and time display
Show Channel Name	Turn On / Off channel name display

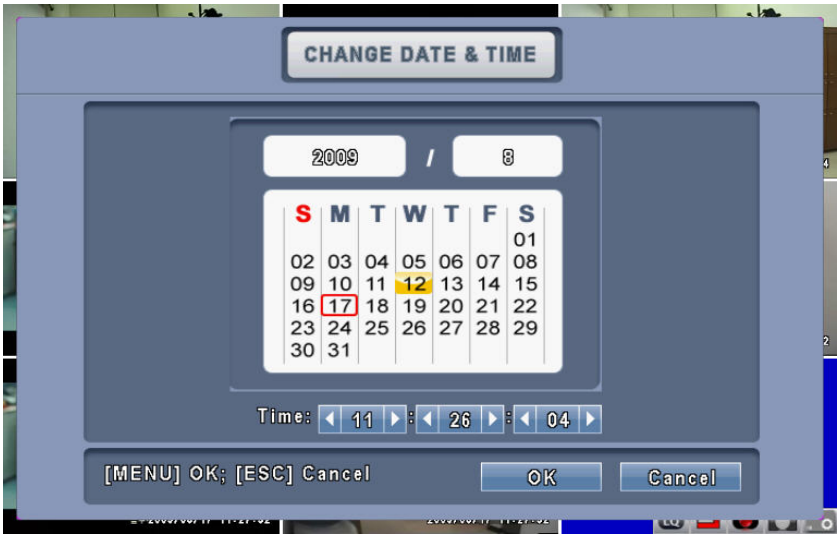
CRT	Set up this function when the screen on CRT monitor is flickered
Border Color	Set up the color of border in LIVE , PLAYBACK mode.（Red, Green, Blue）

5-8.2 DATE/TIME SETUP

Item	Description
Time Format	12HOURS/ 24HOURS
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD
Date/Time Position	Choose the position of Time and Date display
Change Date & Time	Setup time and date of DVR
Time Zone Setup	Set up GMT and Daylight Saving Time.
Internet Time Setup	Setup automatic synchronization with internet server

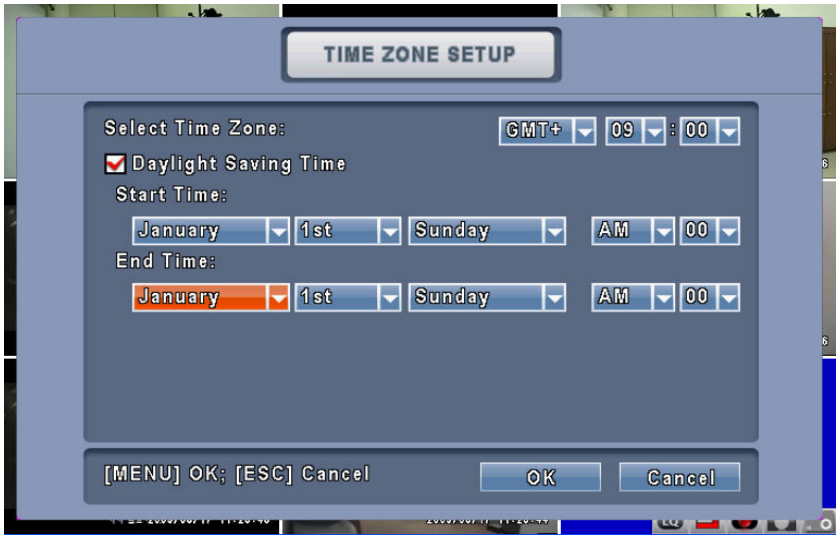
5-8.2.1 CHANGE DATE & TIME

Setup date and time of DVR manually according to user's local time.



5-8.2.2 TIME ZONE AND DAYLIGHT SAVING TIME SETUP

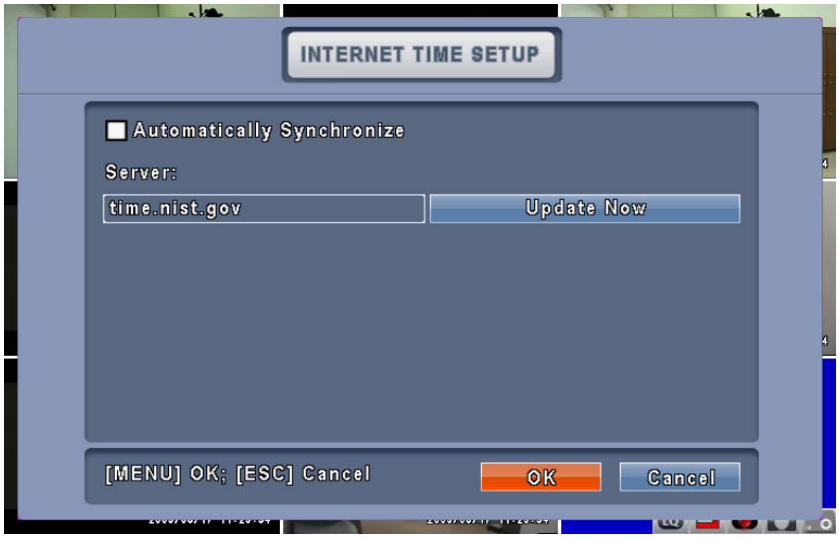
Set up time zone and activate Daylight Saving Time function according to user's DVR location.



Item	Description
Select Time Zone	Enter to modify GMT from GMT- 13 to GMT+ 13
Daylight Saving Time	Turn on/ off Daylight Saving Time

5-8.2.3 INTERNET TIME SETUP

Synchronize your DVR time with internet time server.



Item	Description
Automatic Synchronization	Check to enable DVR automatic synchronization function. Effective by this option selected, DVR will automatically synchronize the time upon rebooting or by every 24 hours after booting.
Update Now	Effectively, Date and Time show on DVR will immediately correspond with those in internet server.

5-8.3 BUZZER & RELAY SETUP

Item	Description
Key Tone	Enable/Disable keystrokes.
Buzzer	Enable/Disable buzzer operation when the alarm is triggered for sensor, motion and vloss (Video Loss).
Relay	Enable/Disable the signal to be sent to the RELAY OUT blocks when the alarm is triggered for sensor, motion and vloss.

5-8.4 SPOT SETUP

The DVR has two modes of video output; one is main video output, the other is spot video output. SPOT control to switching the channels the system cycles through in SPOT mode. User can monitor every channel in the SPOT mode.

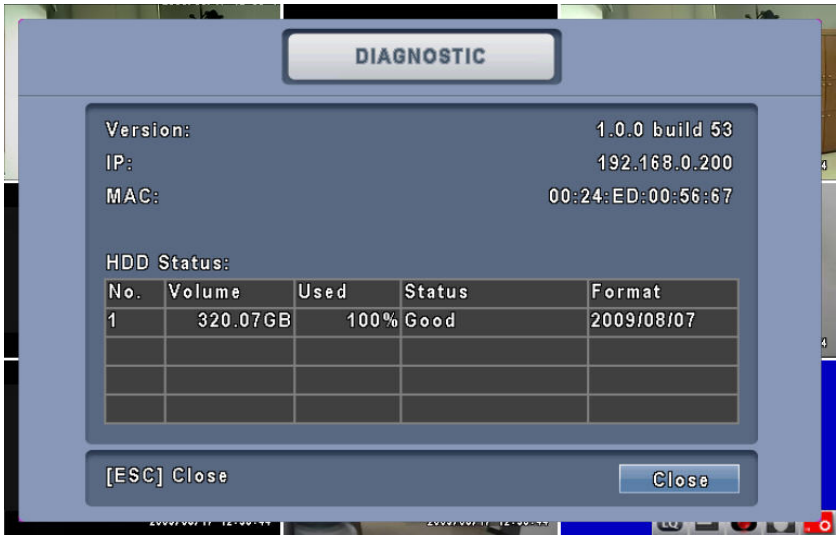
Item	Description
Auto-Sequence Interval (Seconds)	The duration time in seconds for the interval between channels under SPOT mode.
Skip Video Loss Channel	Whether to skip channels without video signal.
Channels	Check channels which you want to display.

5-9 UTILITY SETUP

Item	Description
HDD Initialization	Select to enter hard disk initialization menu. **Please stop recording before entering this menu.** Enter the menu, system will show all the data (model / volume) of HDD that installed in DVR. Check the HDD you'd like to initialize then press "Start". HDD initialization is successful when the status shows "Succeed"
USB Initialization	Clean up all data on USB. Enter USB initialization and press YES to clean up all data on your USB. The initialization is done when it's showed "Succeed".
System Recovery	Restore system default values
Reset System Events	Reset all the recording events in DVR.
Copy Setup to USB	Copy configuration data to a USB device. There will be a file on your USB.
Download Setup from USB	Download configuration data from a USB device into DVR.
Upgrade	Upgrade DVR through USB. Please stop recording and backup setup configuration before upgrading. **System will reboot automatically when the upgrade is completed.**

Notice! DO NOT TURN OFF POWER and Keep PLUG-IN USB DEVICE During the UPGRADE as it may cause incomplete firmware upgrade and damage to the DVR.

5-10 DIAGNOSTIC



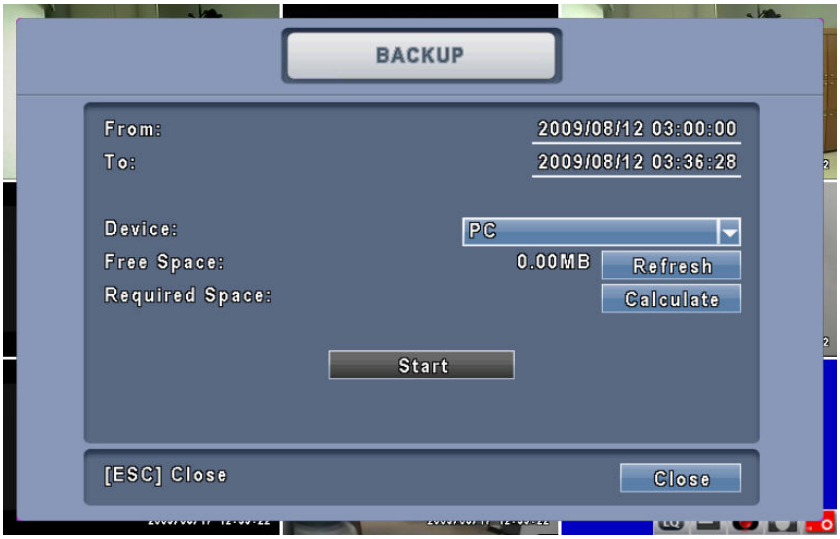
Item	Description
Version	The current firmware version of DVR
IP	The connected IP address of DVR. If disconnected from network, the screen will display" NETWORK DISCONNECT".

MAC		MAC Address of DVR
HDD Status	**No.**	HDD number
	Volume	HDD Capacity
	Used Rate	Percentage of space used on HDD.
	Status	Shows HDD status. **USING** means the HDD is being used for recording now **GOOD/BAD** means the HDD has a known/unknown format for the DVR. (Note: Please initialize your newly-installed HDD before using it.)
	Format Time	The latest format time of HDD

6 BACKUP & SEARCH

6-1 BACKUP SETUP

User can backup any segment of recorded data in a specified time frame. To do so, either a DVD-RW or storage device, like USB pen, must be connected to the DVR. Recorded data can also backup into PC through our remote access software: 「Remote.exe」 and be saved in your assigned path. The format of backup file is *IRF* file that can be played by a Backup viewer

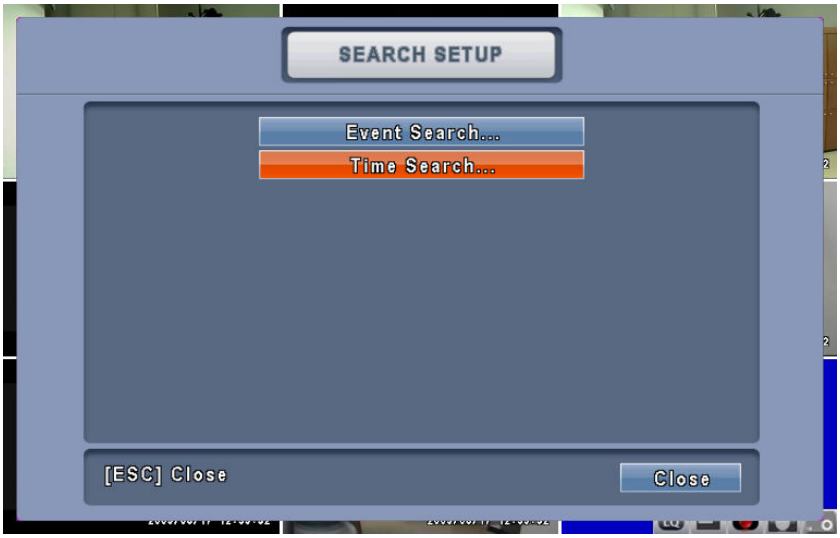


Item	Description
From	The start time of backup file
To	The end time of backup file
Device	Select USB pen, DVD-RW or PC as the backup device
Free Space	The available space in your backup device. (not available for PC backup)

Refresh	Recalculate the available space of backup device. (not available for PC backup)
Required Space	Show the size of the backup file
Calculate	Calculate the size of backup file
Start	Start backup operation. **Be sure to calculate the size of backup file BEFORE operating backup.**

Note! Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error.

6-2 SEARCH SETUP



Item	Description
Event Search	Event search menu
Time Search	Enter time search menu

6-2.1 EVENT SEARCH

The DVR automatically records events with type, time and channel information included. If there is recording data for an event, a yellow signal will be shown on the left side of time information. Rest your cursor under the line and press “enter”, or left click your mouse to playback the recording data.

P.S. Event Records will still be generated even when hard disk is not installed or the record function is not activated. However, the record can’t be viewed after selecting it.

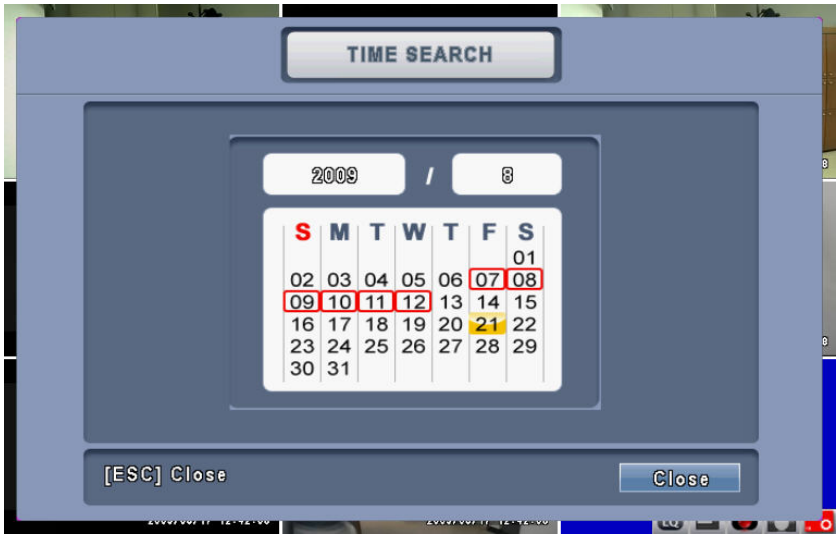
Item	Description	
Criteria	Setup conditions of event search	
Page	Switch between pages of events	
Date/Time	Date/time when event occurred.	
Event Type	Event type, defined as following	
	VLOSS	Video Loss
	MOTION	Motion Detected
	SENSOR	Sensor Detected
	REMOTE LOGIN	user log-in over the network
	REMOTE LOGOUT	user log-out over the network
	POWER ON	System boot
	HDD FULL	The Full status of HDD
	HDD ERROR	The Error status of HDD
	REBOOT	System Reboot
Info	The channel where event occurs or login user	

6-2.1.1 CRITERIA SETUP FOR EVENT SEARCH

The amount of events can be numerous. Therefore, you can facilitate event sorting by setting up “criteria”. Setup “start time” and “end time” for event search, then the search result will be limited to this specific period of time. Only checked events and channels will be sorted in event search.

6-2.2 TIME SEARCH

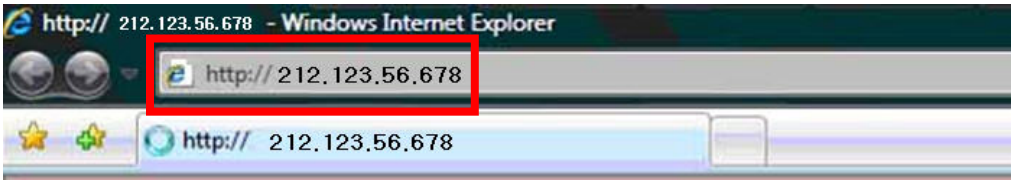
TIME SEARCH can search for the specific time of recording data to playback. Press “Enter” or left click on the desired date to playback. Note that dates with recording data are marked with a red square “ □ “System will start playing back according to the date you selected. Calendar will be shown by using mouse to click on “year” and “month”.



Click “date” to display recording time of that specific date with time bar. You can change time (hour/minute/second) or click on a specific time of time bar by mouse then press “ok”. DVR will playback the selected recording data.

6-3 How to search via Web monitoring or Program

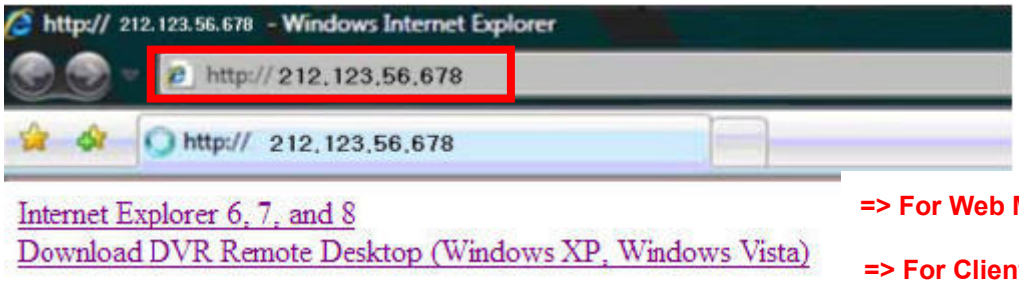
Step One：Enter the IP address and DVR port of DVR in IE browser　(DVR port : Default is 80)



Step Two: Windows as below will show up. Please enter the user name and password. Default user name and password is **admin/123456**. Other related setup about user account and password, please check **"5-5 Account Setup**. "

The server 212.123.56.678 at . requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
Password:
Remember my password
OK
Cancel

Step Three: After entering ID and PW, You can see the Connection screen as below. image.


http:// 212.123.56.678 - Windows Internet Explorer
http:// 212.123.56.678
http:// 212.123.56.678
Internet Explorer 6, 7, and 8
Download DVR Remote Desktop (Windows XP, Windows Vista)
=> For Web Monitoring
=> For Client Program

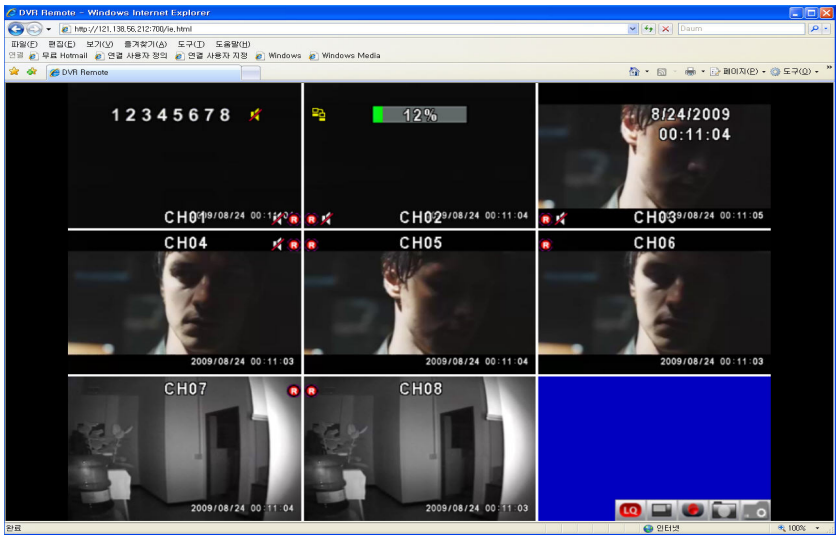
6-3.1 Web Monitoring.

Please Choose “Internet Explorer 6,7,8” in order to do Web monitoring

Then It will be shown the connection screen as below image.

It can allow you to remotely access and control the DVR from PC.

(If It is the initial connection on PC, you have to install “active-X” program)

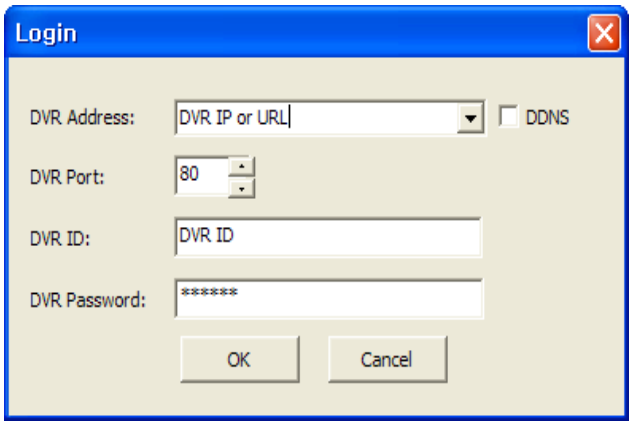


6-3.2 Client Program

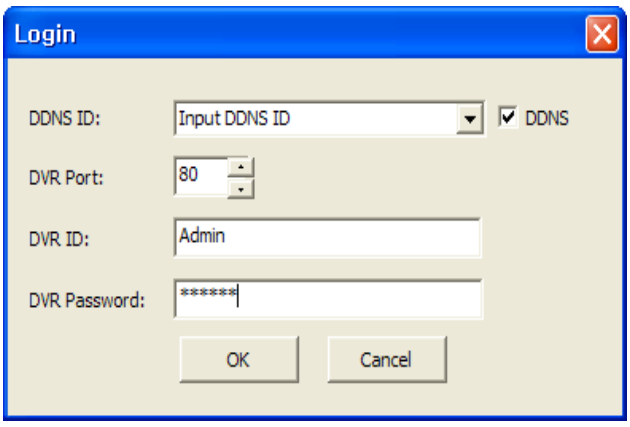
Please Choose “Download DVR Remote Desktop” in order to use Client Program.

Then Run “Remote” program after downloading program Via Internet

Please enter Information of login DVR as below.



(1) DVR ADDRESS Usage



(2) DDNS Usage

After entering Information, You can see the Connection screen as below. image.

It can allow you to remotely access and control the DVR from PC.

6-4 Client Program Operation

Open the file “Remote.exe”; enter the information of DVR “IP address”, “Port” “DVR ID” and “Password” and click “OK”. You should be able to login DVR successfully and start to use the software. The default user-name and password is 「admin / 123456」

“Remote.exe” Client Program provides some extra functions for remote users. Please check **Table 6-4.1** for minimum system requirements for “Remote.exe” operation. Table 6-4.2 is corresponding to Ethernet cable b andwidth. Please take this table for future references when applying for Internet bandwidth or connecting to Internet.

Table 6-4.1 System Requirements for Client Program

CPU	Intel Pentium 4 above
OS	Microsoft Windows Vista、Windows XP SP2 above
RAM	512M above
VGA Card	Needed to support DirectX9.0 (Above) Note 1
Others	DirectX 9.0 above

Note 1:

Known VGA card that support DirectX9.0 currently:

NVIDIA: Geforce FXseries, Geforce 6series, Geforce 7series, Geforce 8series, Geforce 9series, Geforce 200series, etc.

Or visit:http://en.wikipedia.org/wiki/Comparison_of_Nvidia_graphics_processing_units

ATI: Radeon R300series, Radeon R400series, Radeon R500series, Radeon R600series, Radeon R700series, Radeon HD 3xxx IGPseries, Mobility Radeonseries (9500 above), Mobility Radeon Xseries, Mobility Radeon HDseries, or FireGL Vseries etc.

Or visit: http://en.wikipedia.org/wiki/Comparison_of_ATI_graphics_processing_units

SiS: SiS 67Xseries, or SiS 77Xseries etc.

Or visit: http://www.sis.com/support/support_compare.htm

Intel: 91Xseries, 94Xseries, 96Xseries, G3Xseries, or G4Xseries, etc.

Or visit: http://en.wikipedia.org/wiki/Intel_GMA

Table 6-4.2 Network Bandwidth Requirement Reference

Resolution \ Quality		Highest	Normal	Lowest
D1	16CH	6.9~7.9Mfps	3.7~5.8Mfps	1.2~2.4Mfps
	9CH	6.5~8.2Mfps	3.6~5.8Mfps	1~2.6Mfps
	4CH	6.6~8Mfps	3.8~6Mfps	1.4~3Mfps
	1CH	6.2~7.6Mfps	3.6~5.7Mfps	1.2~2.5Mfps
HD1	16CH	3.6~5.4Mfps	1.9~3.5Mfps	890K~1.7Mfps
	9CH	3.3~5.6Mfps	1.8~3.7Mfps	900K~1.6Mfps
	4CH	3.4~5.1Mfps	1.8~3.8Mfps	850K~1.8Mfps
	1CH	3.7~6Mfps	1.6~4Mfps	870K~1.8Mfps
CIF	16CH	1.8~3Mfps	1.2~2.2Mfps	860~1.3Mfps
	9CH	1.9~2.9Mfps	1.2~2.5Mfps	750~1.2Mfps
	4CH	1.6~2.5Mfps	1.1~2.4Mfps	700~1.3Mfps
	1CH	1.8~2.9Mfps	1.4~2.6Mfps	720K~1.1Mfps

7. MOBILE APPLICATION INSTALLATION AND USAGE

You can remotely monitor all channels of DVR through your mobile device. The required mobile application is from DVR manufacturer and it supports mobile OS for both Windows mobile 5.0 above and Symbian. Please confirm network function of DVR has been activated before mobile connection:
Main menu → Network Setup → HTTP Setup → Check the “Enable HTTP Server”

7-1 Mobile Application Installation and Operation for Symbian System.

Mobile Device: Nokia, SonyEricsson…etc.
System requirement:
GPRS/ 3G must be provided from your telecom service.
Mobile device that supports GPRS/ 3G protocol and Java cldc1.0/midp 2.0 environment
＊Please download both” DVRH264.jar” and “DVRH264.jad” to operate the function. Note that users with Sony Ericsson will only need to download “DVRH264.jar.”

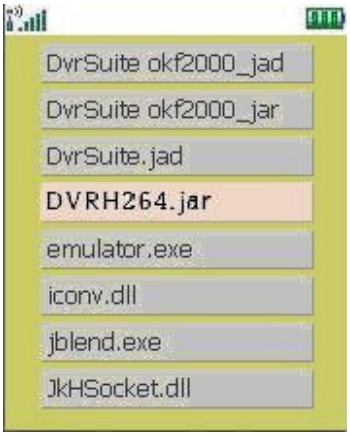
7-1.1 Mobile Application Installation

Please follow the steps cited below to perform the mobile device surveillance function.

Step 1: The mobile application called "**DVRH264.jar**" need to be installed in your mobile device.

The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that packed with DVR through Bluetooth or USB cable.

Step 2: Install the application software "**DVRH264.jar**" in your mobile device. It might be installed automatic ally after downloading; otherwise, select it from the downloading file for installation.



7-1.2 Mobile Application Operation

After the installation, enter the Program Files menu in your mobile device to run a file called "**DVRH264**".

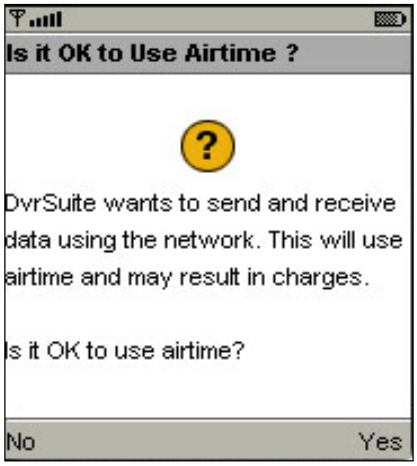
Select "Menu" at the right lower corner of your mobile screen, 4 com mands, Login Add Modify **and** Delete**, will show up.**

7-1.2.1 Add New Login DVR

To log into the DVR, you need to enter the logging-in DVR information. Find "**Add**" under the "Menu" then enter logging-in DVR's IP address, Port number, account name and password. Press "**Add**" to save this information after entering.

7-1.2.2 Logging Onto the DVR

Use the Login command to log onto a DVR and monitor live images. If multiple DVRs have been added to the mobile application, they will be listed by name, you can select one to log onto.

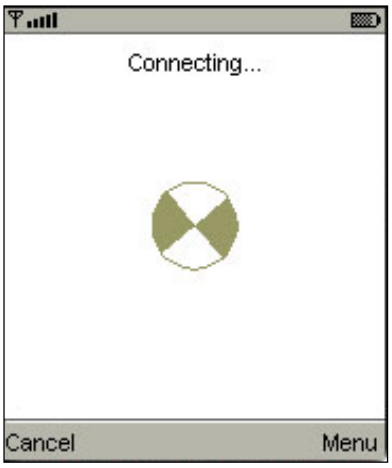

Is it OK to Use Airtime ?
DvrSuite wants to send and receive data using the network. This will use airtime and may result in charges.
Is it OK to use airtime?
No
Yes

A confirmation message might show up for network charge before connec tion. The fee rate will depend on the telecom company and package fee you go with.

Network connectivity will take some time. It'll be affected by networking environment and bandwidth flow.

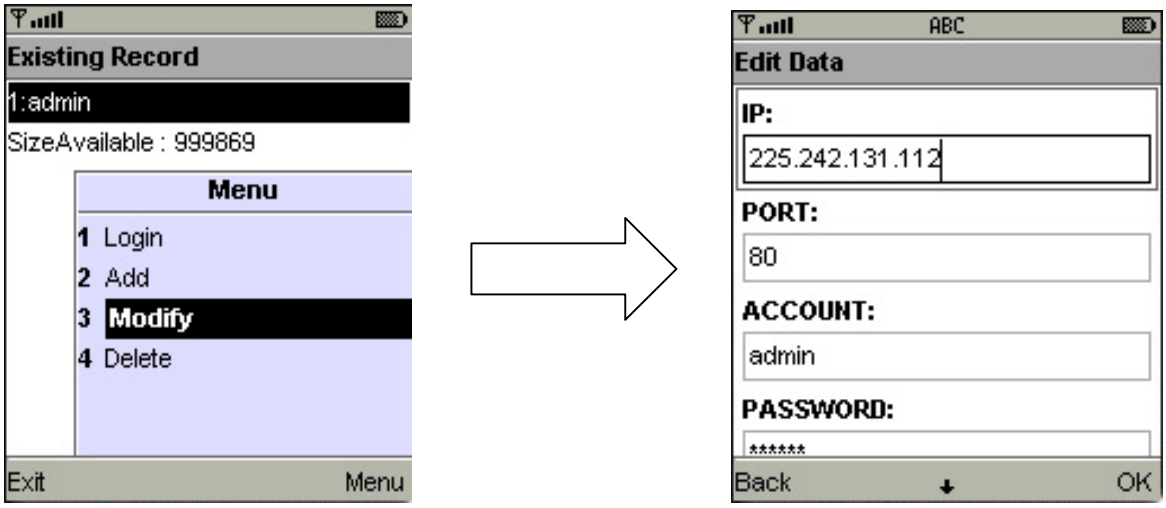
Live image will show up after a successful connection.

PS. The *Live* can not be displayed in your mobile when the recoding is off in local DVR.



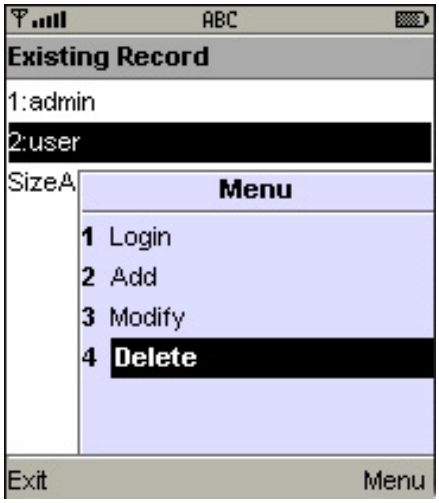
7-1.2.3 Modify the Login Information of DVR

You can use the "**Modify**" command to change the login information of DVR. The dialogue is identical to that of the "Add" command.



7-1.2.4 Delete the Login Information of DVR

"**Delete**" command can be used to remove the DVR information if it is no longer useful. Select the DVR on the name list then choose "**Delete**"



7-1.3 Live Monitoring Operation

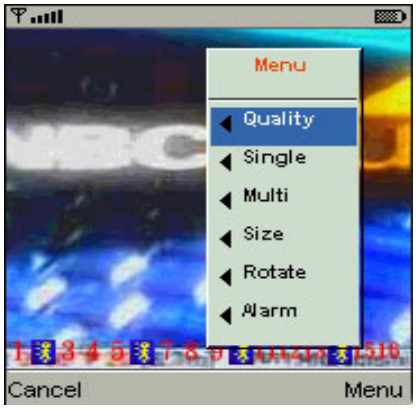
This paragraph describes some operation under the LIVE monitoring mode in your mobile device.

7-1.3.1 Scroll the Image

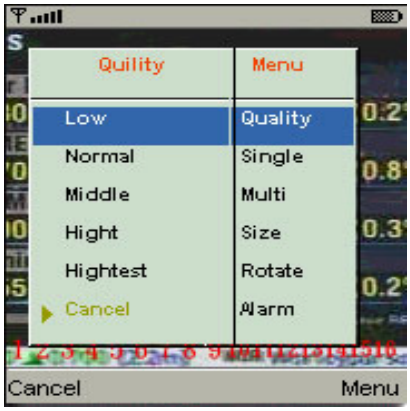
You can use the keypad on your mobile device to scroll the image if it's oversized.

Key	Action
2	Scroll Up
4	Scroll Left
6	Scroll Right
8	Scroll Down

7-1.3.2 Image Quality Setup

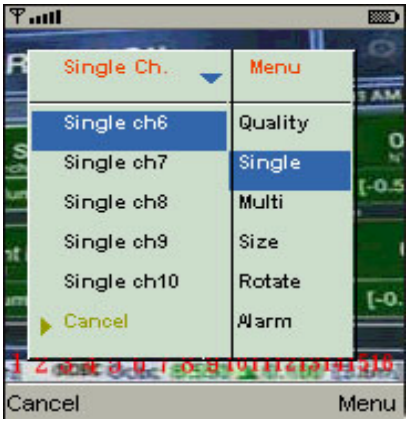


Select "**Quality**" under the "Menu"



There will be 5 levels for your to choose: Low、Normal、Middle、High **and** Highest**.**

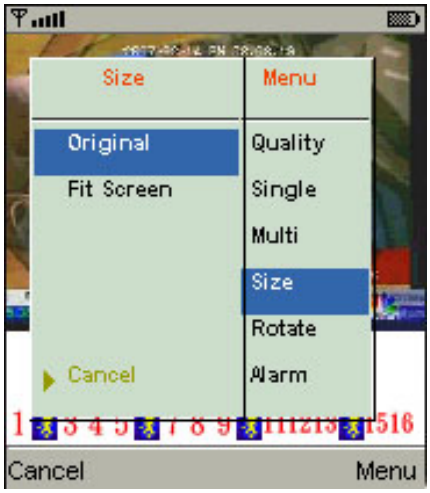
7-1.3.3 Channel Display



Select "**Single**" under the "Menu", there will be all channels of your DVR in list for you to choose.

PS. The *Live* can not be displayed in your mobile when the recoding is off in local DVR.

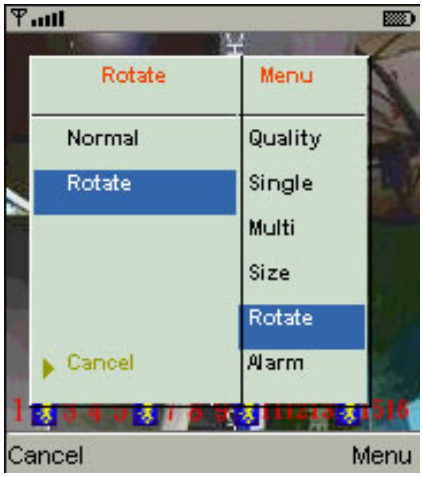
7-1.3.4 Size of Image



The screen size of different mobile device can be different. You can select "**Size**" under the "Menu" to choose from "**Original**" or "**Fit Screen"** to resize the display image.

Item	Description
Original	The image will be shown in original size.
Fit Screen	The image will be shown to fit the screen.

7-1.3.5 Rotate the image



The Live image can be displayed in normal or rotate to 90 degrees. Select "**Rotate**" under the "Menu" for this operation.

7-1.3.6 Alarm

This application not only allows you to remotely monitor through mobile device but receive the alarm that has been triggered by events such as Motion Detected, Sensor Triggered and Vloss.

Graphical icons below will be shown on the status:

: Motion detected

: Sensor triggered

: Video loss

Select the "**Alarm**" under the "Menu" to switch this function on or off.

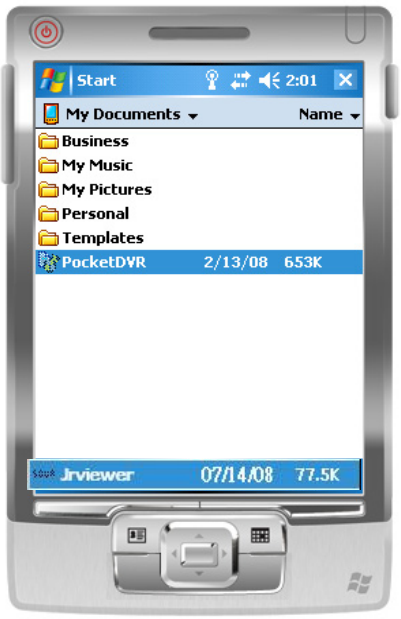
7-2 Mobile Application Installation and Operation for Windows Mobile System

There are two kinds of applications for Window Mobile OS: JPEG compression and H.264 compression. The one for H.264 compression can transfer both audio and video signal to your mobile device.

System Requirement:

Mobile device OS：Windows mobile system 5.0 above.

Mobile device need to support internet: GPRS / 3G / Wifi… etc.



7-2.1 Mobile Application Installation

Please follow the steps cited below to perform the mobile device surveillance function on your mobile device (mobile phone, PDA ...etc).

Step 1: The mobile application called **"Jrviewer.CAB"** and "**H264Pocket.CAB**" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that packed with DVR through Bluetooth or USB cable.

Step 2: Install the application software **"Jrviewer.CAB"** and "**H264Pocket.CAB**" in your mobile device, two folders named "**Jrviewer**" and "**H264Pocket**" will be created. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.

7-2.2 Mobile Application Operation

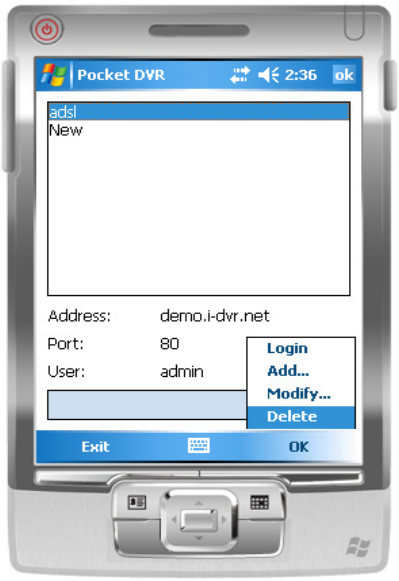
After the installation, enter the Program Files menu in your mobile device to run files named "**Jrviewer**" and "**H264Pocket**".

This application allows you to remotely logon and monitor DVR. Press "**OK**" to bring up the operation menu, see below chart to further information.

Item	Function	Description
Add	Add login DVR	Enter DVR's name, IP address, Port, Account user, Password then press "**OK**"
Login	Logon DVR	• Choose the DVR that you'd like to log on , then press "**OK**" • **PS. The *Live* can not be displayed in your mobile when the recoding is off**. • **PS. Network connectivity will be affected by networking environment and bandwidth flow. The fee rate will depend on the telecom company and package fee you go with.**
Modify	Modify Login DVR	Choose DVR, press "**Modify**", and press"**OK**" to save change.
Delete	Delete Login DVR	Choose DVR and press "**Delete**" to delete the DVR info.

The operation of **Jrviewer**

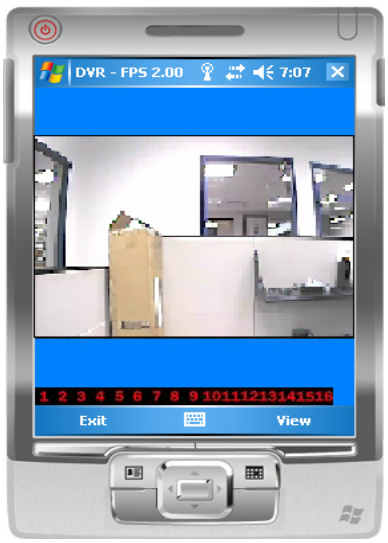
The operation of **H264Pocket**



7-2.3 Operation under the LIVE monitoring.

After successful logon the DVR, press “View” to bring up operation menu. You can choose the channel, resize the image, choose the quality, and turn on/off the status bar, alarm, full screen display….etc

7-2.3.1 Operation under the LIVE monitoring for Jrviewer



Item	Function	Description
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display
Screen	Size of image	Original：image size as original Stretch：stretch the size as full screen Fit: resize the image to fit the screen
Quality	Quality	Change the quality of image. Please note the better quality, the slower data transfer rate.

<table>
<tr><td>Status Bar</td><td>Status Bar</td><td>Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the “Status Bar” to inactivate this function.
<table>
<tr><th>Icon</th><th>Description</th></tr>
<tr><td> </td><td>Motion Detect</td></tr>
<tr><td> </td><td>Sensor Trigger</td></tr>
<tr><td> </td><td>V-Loss</td></tr>
</table></td></tr>
<tr><td>Alarm</td><td>Alarm</td><td>Alarm through your mobile device can be triggered if there is event to be detected. You can also uncheck the “Alarm” under the “View” to inactivate this function.</td></tr>
</table>

7-2.3.2 Operation under the LIVE monitoring for H264 Pocket

Item	Function	Description
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display. CH1~4 can receive audio signal.
Status Bar	Status Bar	Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the “**Status Bar**” to inactivate this function.

Icon	Description
	Motion Detect
	Sensor Trigger
	V-Loss

Alarm	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also uncheck the "**Alarm**" under the "View" to inactivate this function.
Full Screen	Full screen display	You can choose one channel to display in full screen by check this function.

7-3 The Supported Mobile OS List

Content / Mobile OS	File Name	How to download	G-Series Setup
iPHONE OS	Scdvr	Download through App-store of iPHONE	Check the "Enable HTTP Server"
Blackberry OS	Codname.cod	Contact to your vendor	
	Codname.alx		
Symbian (Nokia, Sony, etc)	DVRH264.jar		
	DVRH264.jad		
Windows Mobile above5.0 (Samsung,LG, etc)	Jrviewer.CAB		
	H264Pocket.CAB		

***Please check User's Mobile phone**

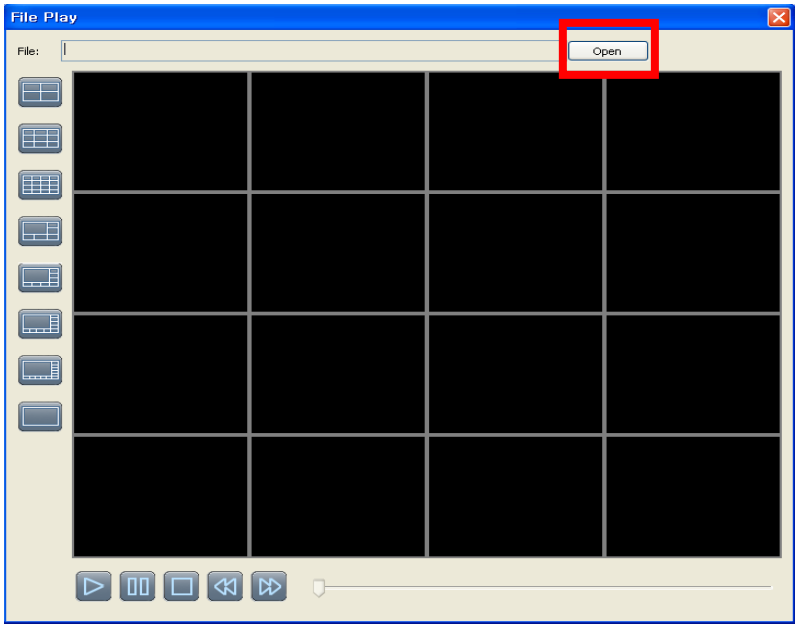
<The Supported range of 3G>

W-CDMA / CDMA 2000 : Supported, TD-SCDMA (China): Not Supported

☞At present, we can't support China 3G (Now support GPRS)

8. Backup Viewer

You can play the recorded **.irf** files by "File Play" in Backup Viewer Program. It allows you to change the display mode, forward or rewind the file and drag the time bar.



Icon	Description
	Start Playback.
	Pause.
	Stop playback.
	Fast forward.
	Fast rewind.

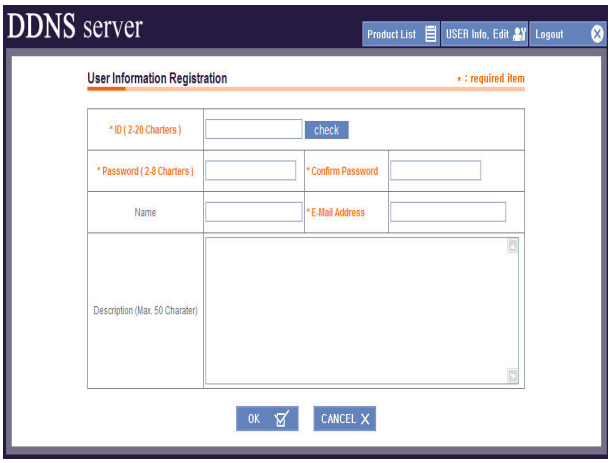
APPENDIX DDNS Account Registration

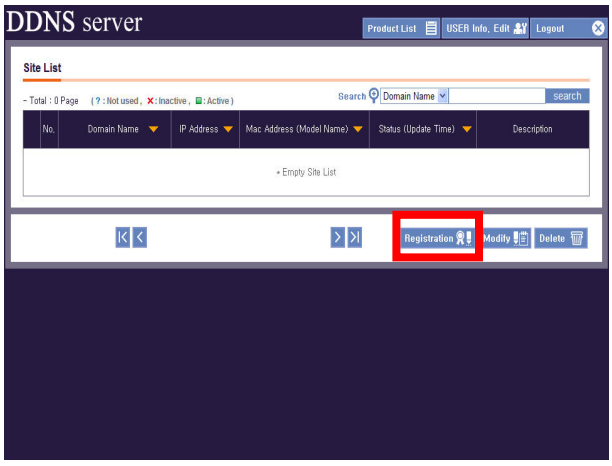
To register DDNS Account in this DDNS Server, please follow the steps as below.

When set-up the name of DDNS Server to “DDNS” :

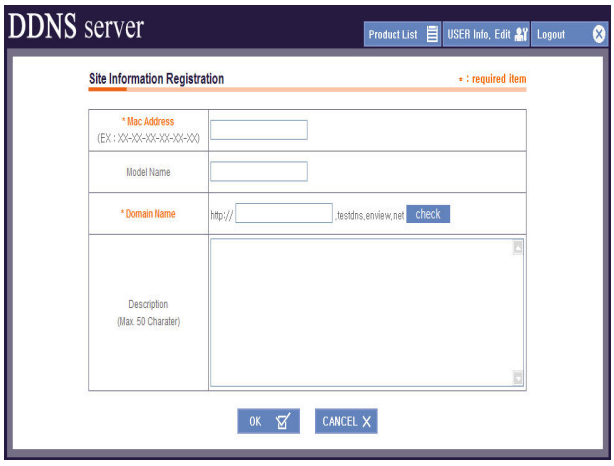
Step 1. Please open DDNS Site in IE browser and make sure an account as below.

<table>
<tr>
<td>

DDNS Site : www.niceddns.com</td>
<td> 

Register User information</td>
</tr>
<tr>
<td> 

As log in User ID, This is the main screen.

(It can register a number of products per user ID)</td>
<td> 

Register Product information

(Required Item : Mac address, Domain Name)</td>
</tr>
</table>

Step 2. Enter DVR →Main Menu → Network Setup → DDNS. Activate DDNS functions and input ID and Password which you registered via DDNS Server